SEATTLE CITY LIGHT

MATERIAL STANDARD

STANDARD NUMBER: **6877.3**

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DATE: April 26, 1994 REV: Febuary 7, 2001

AUTOTRANSFORMER, 100 VA, 277/125V

1. GENERAL

This specification covers single-phase, 60 Hertz, dry-type autotransformers that will be used to supply power to network monitoring transmitters and will be installed within a network protector case.

2. RATINGS

- 2.1 Primary Voltage (Terminals 1-3): 277 volts
- 2.2 Secondary Voltage (Terminals 2-3): 125 volts
- 2.3 Frequency: 60 Hertz
- 2.4 Secondary Load Current: 0.83 amperes
- 2.5 Regulation: 5% maximum at 1250 C. ambient, no load to full load.

3. ENVIRONMENTAL REQUIREMENTS

- 3.1 Temperature: -20° C. to 150° C. Internal temperature rise at nominal load shall not exceed 150° C.
- 3.2 Humidity: 0% to 95% relative humidity.

4. DIELECTRIC WITHSTAND

4.1 Primary winding shall withstand 3.5 kV RMS, 60 Hz, applied between it and the core for 5 seconds.

5. PHYSICAL REQUIREMENTS

- 5.1 Mounting: 0.125 inch rolled steel brackets suitable for chassis mounting.
- 5.2 Terminals: Insulated stranded wire, No. 20 AWG, 200º C. Teflon insulation, color coded, minimum 18 inches long.
- 5.3 Corrosion Protection: Metallic surfaces shall be cadmium plated or equivalent. Windings shall be impregnated against moisture.
- 5.4 Grounding: The core shall be grounded to the mounting brackets.
- 5.5 Marking: Markings shall include manufacturer's name, voltage, current, and frequency ratings, and terminal identification.
- 5.6 Maximum size: 3.0 inches wide, 4.0 inches long, 3.5 inches high.

6. APPROVED MANUFACTURERS

Tierney Electrical Mfg. Co. Model AC100A-277V125A

7. STOCK NUMBER 687730

ORIGINATOR	STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
fem S. Horn	Charles I. Shaffer	John & Chinner	Denis DeVices